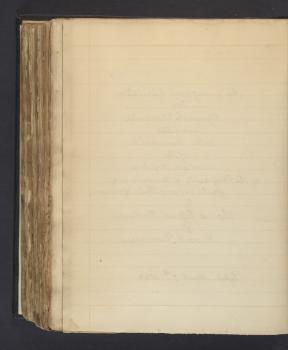
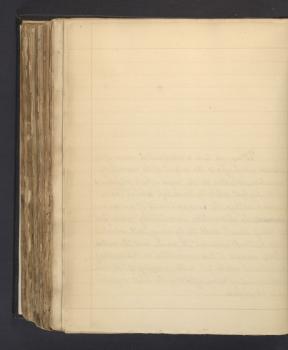
An inaugural dissertation
on
Cynanche Trachealis,
submitted
to the examination
of the
Medical Professors
of the University of Pennsylvania,
for the degree of Doctor of medicine;
by
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Sewark Delaware.

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When we take a relayheelive view of the disease, which affords the subject of the present diffusertation; whether on the pages which physicians of the highest exclusivity have left behind them, or even within the narrow limits of our own immediate observation, we certainly cannot fail of being struck with the transmy with which it has hitherto exercised its power, and the melang choly savages it has committed on hundredsy our species while yet in the meaning of life, not withstanding every effort of the most ingenious physicians.



The motives which led me to make Cynanche Anchealis the subject of my theirs, were my having had some opportunities of beholding its progress from the first stage contill the last, Polihout a more provide exempticum I shall now proceed to the immediate object of my thesis.

This disease is for the most part confined to the early part of life, embassing the space between the first and fifth year, and attachs chiefly of a florid and robust habit. Halso attachs infants within the month, and adults are not exempt from it, an instance of this which can never be fag often is that which deprived one country to word or one of their most illustrious citizens denge washington. And the learned tingenious Professor of the institutes and Practice of Modelicine in this unineasity, whose authority is at all times of the superior hind, related in his lectures the eases of two ladies of this lectures the cases of two ladies of this



both of whom he attended in repeated attachs of croup. So strongly were they predisposed to it, that they scarcely ever escaped when exposed to the causes. The same liability has been transmitted to their children. Croup does not appear to be contagious, but it sometimes prevails epide mically. It seems peculiar to some families, and a child having been once attached is very to its returns at uncertain periods, from any slight exposure to cold. It is known to be en demial to certain places, as many situations on the sea board are so particularly exposed to it, as almost to preclude the raising of children. The application of cold seems to be the general cause which produces this disease, and therefore it occurs more frequently in the winter and spring when the vicifsitudes of temperature are more common. It has been observed to be most prevalent in cold and damp situations. such as those exposed to air passing over large

bodies of water; and more especially in the vicinities of the seacoast where the air islandes with moisture & the changes of the weather are sudden and frequent. Not a little conten_ tion has taken place concerning the division of of Cynanche Frachealis into spasmodic and inflammatory. But in all cases where it attacks suddenly it must surely partake of the nature of spasm, as time is required to induce inflammation which consists in an attered action of the vefsels of a part affected, by comparatively a slow process; and no cause however more rapidly promotes it than the disturbance oc_ casioned by spasmodic constriction. Inspections show where death takes place rapidly none of the phenomena of inflammation. But where the disease slowly approaches or is the effect of inflammation of other parts extending to the Frackea, as sometimes trappens in measles, searlet fever and most of the anginose affections,

then it is of a contrary character. The disease generally comes on in the evening, after the patient has been much exposed to the wear ther during the day, and often after a slight catarrh of some days standing. At first his voice is observed to be hourse, he appears dull drowsy and inactive. His illness does not prevent him from sleeping, but soon he wakes up with a most unusual cough rough and strictulous which is preculiar to the disease, and has been compared to the sound resem_ bling the crowing of a coch. Every fit of coughing agitates him very much, his face becomes flushed & swelled, his eyes bloodshot, a general tremor takes place, and there is a kind of convulsive encleavour to renew respiration at the close of each fit, There is constant danger of suffocation, a quick initated pulse, and an unusual degree of restelpries and anxiety; the child will not remain long in one possition,

his shin burns and he has much thirst, it whines and cries and topses about, and seems to be excepively uneary without suffering any positive pain, cases of this nature are probably dependant on spasm, and terminate fatally in a very short time where releif is not afforded. In this disease as in most of the Ohlegmasia, however alarming the other symptoms of fever, there is seldom any delerium. A degree of Coma frequently supervines; death sometimes approa ches in a different way than from the former, by profuse sweats and fainting fits. The ceasing of the cough is to be ranked among the fatal symptoms, since its alvence can only be attributed increasing insensibility, & deprives the patient of the chief means of removing the morbid secretion from the Trackea which has taken place. The breathing now becomes small & hunied, the face assumes a livid and cadaverous appearance, the pulse

flutters & the extremities become cold which points out that death is athand; sometimes it will destroy the child by suffacation, induced either by spasm affecting the muscles of the glottis, or by a quantity of matter block ing up the Bronchia; but when it terminates in health it is by a resolution of the inflammation, by a cepation of the spasm, by a releif to the dyspora and the voice becoming natural, with a copious and free expectoration of the matter excuding from the Fachea. The clisease has been known to terminate fatally in twenty four or fourty eight hours, an instance of which fell under my observation, the child was taken ill on saturday between the hours of four and disc oclackem. and died the next day at about sleven A.M. Dispections reveal to us slight marks of inplanmation of the largne, with more or less of mucus such as is formed by most all

atherist and the compression of the secretaries

secreting surfaces; the lungs are not unusually found in a healthy state, but in some instances they are inflammed, accasionally they are found full of death blood 4 sorum, also a quantity of pust is met with, and in tracing the Bronehia throughout their minute ramifications, they are usually found filled with mucus, and Bursonus tello us they afound after Oneumonia, as adhesions to the Pleurale.

Merpecting the preternatural membrane found sometimes liming and slightly adhering to the trachea, from the interposition of push like matter between it and its surface; which is spoken of by different as those, there is no doubt that it does accosionally exist where the physician has not been called in at the first stage, and where the lancet and other depleting measures have not been very feely used. In proof of its

excistence we have the authority of that excellent writer Cheyne, which is corroborated by Dr. Band of New-york, who informs us that he has commonly observed in those cases 4 which he examined, that the membrane excl tended into the Bronchia as well as the Trachea, he also states that the disease is not even limited to the Trachea & Bronchia, but the lungs throughout their whole sulstance to a certain degree participate in the affection, insomuch that he has seen those organs ren_ dered so dense and solid, that they exhibited in their appearance a great resemblance to the firm structure of the liver instead of the loose and spongy texture in which they naturally excist. From the appearances found on dispection, and the symptoms which attend the disease there can be no doubt, but that it is an inflammatory affection of the mucous membrane of the Trachea, Larynne

and parts immediately connected therewith. attended with spasmodic contraction of the muscles. In the first stages of the disease, our most strenuous endeavours should be exerted to arrest the increased action which prevails, and for this purpose bleeding both general and local, emetics purgatives & blisters are to be resorted to; therefore an emetic of Antimonium Fartarisatum or Tpecacuanha should be given, but the first is to be prefered on account of its dose being smaller, to aid the operation of the emetic the patient should be placed in a warm bath, it alone has been known to eure the clisease. The medicine not operating or had the desired affect we should draw some blood, which will prevent the offusion into the Bronchia, and repeat it and the bath. If the attack still continues with little or no abatement, we must result to topical depletion by leaches or cups. As the cups are

apt to impede respiration by pressure and suction when placed anteriorly they should be applied to the sides or back of the nesh; much advantage may be derived from a sinapion a a blister applied over the throat. All these remedies failing and the symptoms becoming reiolent, bleeding ad deliquium animi has been practised with the happiest effect, the moment syncope takes place the hourseness, cough impeded respiration and fever will mostly yield. Throughout the whole course of the disease an antiphlogistic regimen will be necessary, and to heep the bowels open by some pungative, or common injection. The removal of the preceeding symptoms indicate to us, that the disease has partially abouted, and we should administer calomel in large closes in order to purge freely, and carry off the lingering symp. toms. To releive the cough, hourseness and de_ ficient expectoration, some of the expectorante

been Gradfood with the how has affect to

such as the diluent drinks of Gum arabic Flaxored tea a inhaling the vapour arising from warm water with the addition of other or camphor, but a decaction of Polygala Senega is by far the best. The disease being permitted to continue it extends itself to the Bronchia, and the substance of the lungs become loaded with mucus or coagulated lymph or filled with blood. Now we have a difference of the symptoms, the lungs loaded and oppreped, the pupil widely dilated attended with a wild haggard and ghastly counter nance, the cheeks have a circumscribed flush with a miseture of lividness, respiration very laborious with a disturbed pulse. We are now to releive the lungs of their oppression and reestablish a free circulation, and to affect this the warm bath and the stimulating emetics are to be employed such as Sulphas Zinci, Antimonium Tartarioatum

or Trecacuanha, and by some the juice of the Allium sativum is prefered. The after treat_ ment is to be accomplished by expectorants as the organel or vinegar of squills, Carbonate of ammonia, polygala senega, or Dactar comes hive syrup to whom we are indebted for many improvements in medicine. lalomel has been very much extolled in croup by Dactor Huhn late of this city, and by Doctor Hamilton of Edingburgh, and according to their statements much benefit was derived from it in the generality of eases which fell under their immediate notice, but from the many trials of it by the med ical of this city, and the country practition_ ers it has proved at present to be inferior to the forgoing treatment. To get rid of the membrane which sometimes lines the bron-Ohice various means have been tried, the vitriolic emetics seems to me the best.

adapted to the case, first administering the Sulphas Zinci and afterwards the sulphas cupri, and in many cases it will be expelled; some have proposed and even carried into effect the operation of Laryngotomy as the last resource, and with suc cefs; but as the disease at this time has extended to the lungs, no relief in my opinion can be obtained from such an opena_ tion, besides if the incision was even made and the forceps introduced, the membrane very rarely passesses that tenacity which would enable us to pull it out; for althou of the upper part of the hardened mem_ brane might be extracted, still we should not be able to remove the fluid portion which fills the lower part of the tracked and bronchia, and which is one of the chief obstacles to respiration. And if we loosen the membrane from the Frachea without

enetracting the whole of it, the loose pract remaining; will serve as a value & the child will immediately die from suffocation. Aspersons once having it are

liable to a relapse, and as preventatives against it all the exciting causes should be avoided, we should guard against an indiscriminate expresure to the air, particularly in cold damp weather, and adopt all those precautions with respect to regimen so well known, and so strongly recommended as preventatives in catarrhal complaints. with this then I finish my inaugural difsertation; but before I close it I must confels my getting some parts from different authors; and I beg you illustrious trafelors who have so eminently dis_ tinguished yourselves, in teaching the ocience of medicine, in its different tranthes will accept my most eordial wishes

that for the instructions of have received from your private as well as public lectures, and the many opportunities of improvement I have received this? Them while a student of this reniversity, I shall ever retain a heart felt renumbrance.

